

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) A data processing system, comprising:
a primary site which includes a first computer and a first storage system connected to said first computer; and
a secondary site which includes a second computer and a second storage system connected to said second computer;
wherein,
said first storage system and said second storage system are connected to each other via a communication line;
said first storage system records update history of data as a journal in a storage device, and transfers said journal to said second storage system via said communication line in such a way that said second computer is not in a transport path of said journal from said first storage system to said second storage system; and
said second storage system stores said transferred journal to a storage device.
2. (original) A data processing system according to claim 1, wherein said second storage system executes data recovery based on said stored journal.
3. (original) A data processing system according to claim 1, wherein said journal recorded in the storage device of said first storage system is stored in a plurality of logical volumes, and
while the journal is stored in a certain logical volume, a logical volume for storage is switched to another logical volume.
4. (currently amended) A data processing system according to claim 3, wherein said switching is made at [[such timing]] a time as designated by a user.

5. (currently amended) A data processing system according to claim 3, wherein said switching is executed at [[such timing that]] a time when transfer of the logical volume in which the target journal for transfer to said secondary site is stored is completed.

6. (original) A data processing system according to claim 1, wherein said transferred journal in said second storage system is stored in a plurality of logical volumes, and

while the journal is transferred to a certain logical volume, a transfer-target logical volume is switched to another logical volume.

7. (currently amended) A data processing system according to claim 6, wherein said switching is made at [[such timing]] a time as designated by a user.

8. (currently amended) A data processing system according to claim 6, wherein said second storage system recovers data based on said stored journal, and
said switching is made at [[such timing that]] a time when all logical volumes which store a journal used for recovery are recovered.

9. (original) A data processing system according to claim 1, wherein said second storage system acquires information related to a journal recorded in said first storage system, and

said second storage system issues a command requesting said first storage system to send said journal.

10. (currently amended) A data processing system according to claim 9, wherein said journal recorded in a storage device of said first storage system is stored in a plurality of logical volumes,

a logical volume for storage is switched to another logical volume, while the journal is stored in a certain logical volume, and

said switching is made at [[such timing that]] a time when a command for requesting dispatch of said journal is received from said second storage system.

11. (currently amended) A data processing system according to claim 9, wherein said transferred journal in said second storage system is stored in a plurality of logical volumes,

a transfer-target logical volume is switched to another logical volume, while the journal is transferred to a certain logical volume, and

said switching is made at [[such timing that]] a time when said journal transfer is started at said first storage system.

12. (currently amended) A data processing system, comprising:
a primary site which includes a first computer and a first storage system connected to said first computer; and

a secondary site which includes a second computer and a second storage system connected to said second computer; wherein,

said first computer and said second computer are connected to each other via a first communication line,

said first storage system and said second storage system are connected to each other via a second communication line,

said first storage system records data update history in a storage device as a journal,

said first computer acquires information related to said journal from said first storage system and transmits the information to said second [[storage system]] computer via said first communication line,

said first storage system transfers said journal to said second storage system via said second communication line in such a way that said second computer is not in a transport path of said journal from said first storage system to said second storage system,
and

said second storage system stores the transferred journal in a storage device.

13. (original) A data processing system according to claim 12, wherein said second storage system issues a command requesting said first storage system to send said journal.

14. (original) A data processing system according to claim 12, wherein data recovery in said second storage system is executed by a recovery program to be executed on said second computer based on said transferred journal.

15. (currently amended) A data processing system, comprising:
a primary site which includes a first computer and a first storage system connected to said first computer; and
a secondary site which includes a second computer and a second storage system connected to said second computer; wherein,
said first storage system and said second storage system are connected to each other via a communication line,
said first storage system includes a first storage controller and a first storage device,
said first storage controller executes a journal acquisition program which records data update history in said first storage device as a journal, and a journal transfer program which transfers said journal to said second storage system via said communication line,
said second storage system includes a second storage controller and a second storage device,
said second storage control system executes a journal reflection program which recovers data based on a journal and a journal transfer program which receives said transferred journal from said first storage system,
when said journal is being transferred from said first storage system to said second storage system,
said first storage controller, while said journal is being stored in a certain logical volume of said first storage system, switches a logical volume for storage to another logical volume of said first storage device, and

said second storage controller, while said journal is being transferred to a certain logical volume of said second storage device, switches a transfer-target logical volume to another logical volume of said second storage device.

16. (new) A data processing system, comprising:
a primary site which includes a first computer and a first storage system connected to said first computer; and
a secondary site which includes a second computer and a second storage system connected to said second computer;
wherein,
said first storage system and said second storage system are connected to each other via a communication line;
said first storage system records update history of data as a journal in a storage device, and transfers said journal to said second storage system via said communication line;
and
said second storage system stores said transferred journal to a storage device;
wherein said second storage system acquires information related to a journal recorded in said first storage system, and said second storage system issues a command requesting said first storage system to send said journal; and
wherein said journal recorded in a storage device of said first storage system is stored in a plurality of logical volumes, a logical volume for storage is switched to another logical volume, while the journal is stored in a certain logical volume, and said switching is made at a time when a command for requesting dispatch of said journal is received from said second storage system.

17. (new) A data processing system according to claim 16, wherein said second storage system executes data recovery based on said stored journal.

18. (new) A data processing system, comprising:
a primary site which includes a first computer and a first storage system connected to said first computer; and

a secondary site which includes a second computer and a second storage system connected to said second computer;

wherein,

said first storage system and said second storage system are connected to each other via a communication line;

said first storage system records update history of data as a journal in a storage device, and transfers said journal to said second storage system via said communication line; and

said second storage system stores said transferred journal to a storage device;

wherein said second storage system acquires information related to a journal recorded in said first storage system, and said second storage system issues a command requesting said first storage system to send said journal; and

wherein said transferred journal in said second storage system is stored in a plurality of logical volumes, a transfer-target logical volume is switched to another logical volume, while the journal is transferred to a certain logical volume, and said switching is made at a time when said journal transfer is started at said first storage system.

19. (new) A data processing system according to claim 18, wherein said second storage system executes data recovery based on said stored journal.